



9.13 TOWN OF NORTH EAST

This section presents the jurisdictional annex for the Town of North East.

9.13.1 Hazard Mitigation Plan Point of Contact

The following individuals have been identified as the hazard mitigation plan's primary and alternate points of contact.

Primary Point of Contact	Alternate Point of Contact
John Merwin, Supervisor 19 North Maple Avenue, P.O. Box 516, Millerton, New York 12546 518-789-3300 x 608 ne.supervisor@taconic.net	George Kaye, Councilman 19 North Maple Avenue, P.O. Box 516, Millerton, New York 12546 518-789-3300 x 608 geokayel@gmail.com

9.13.2 Municipal Profile

The Town of North East gets its name from its position in the uppermost northeast corner of Dutchess County. The Town is bounded by the Towns of Pine Plains, Stanford, and Amenia to the north, west, and south respectively, as well as by Columbia County to the north, Massachusetts to the north east and Connecticut to the east. The Town is made up of land obtained from the Great Nine Partners Patent and the Little Nine Partners Patent. Significant settlement of the region began in the early 1700s and the Town was incorporated in 1788. The Town is approximately 43.7 square miles in area and is primarily made up of agricultural land over low rolling hills.

The Town of North East contains a population of 3,031 people and 1,627 housing units according to the 2010 Census. Approximately 64% of the population is of working age with the median age being 45 years old. The Town is mostly rural, sparsely developed land with only two major routes cutting through the Town. These two routes are S.R. 22 and S.R. 44, which intersect in the Village of Millerton. Smaller, less utilized routes such as 199 and 60 also run northwest to southeast across the Town. The Town includes a variety of hamlets including Boston Corner, Coleman Station, Irondale, Mount Riga, Northeast Center, Sharon Station, Shekomoko, Spencer's Corners, State Line, and Whitehouse Crossing. The Village of Millerton is also located in the Town of North East and is actually the population center within the Town and the area of densest development. Most of the Town's assets are located in the Village of Millerton.

Growth/Development Trends

The following table summarizes recent residential/commercial development since 2010 to present. The Town of North East did not note any major residential or commercial development, or major infrastructure development planned for the next five years in the Town.

Table 9.13-1. Growth and Development

Property or Development Name	Type (e.g. Res., Comm.)	# of Units / Structures	Location (address and/or Parcel ID)	Known Hazard Zone(s)	Description/Status of Development
Recent Development from 2010 to present					
Irving Farm	Commercial	1 building	6044 Rt. 22, Millerton, NY	Flooding	Currently being constructed



Property or Development Name	Type (e.g. Res., Comm.)	# of Units / Structures	Location (address and/or Parcel ID)	Known Hazard Zone(s)	Description/Status of Development
Known or Anticipated Development in the Next Five (5) Years					
None					

* Only location-specific hazard zones or vulnerabilities identified.

9.13.3 Natural Hazard Event History Specific to the Municipality

Dutchess County has a history of natural and non-natural hazard events as detailed in Volume I, Section 5.0 of this plan. A summary of historical events is provided in each of the hazard profiles and includes a chronology of events that have affected the County and its municipalities. For the purpose of this Plan, events that have occurred in the County from 2008 to present were summarized to indicate the range and impact of hazard events in the community. Information regarding specific damages is included, if available, based on reference material or local sources. This information is presented in the table below. For details of these and additional events, refer to Volume I, Section 5.0 of this plan.

Table 9.13-2. Hazard Event History

Dates of Event	Event Type	FEMA Declaration # (If Applicable)	County Designated?	Summary of Damages/Losses
February 24, 2010	Heavy Snow	N/A	N/A	Routine Plowing and Sanding
December 26-27, 2010	Severe Winter Storm and Snowstorm / Nor'Easter	DR-1957	Yes	Snow and Drifting Snow Plowing and Sanding
August 26 – September 5, 2011	Hurricane Irene	DR-4020	Yes	Checking Roads, Sweeping Roads, Repairing Washouts
October 29-30, 2011	Nor'Easter, Heavy Snow	N/A	N/A	Trees and Wires Down Plowing And Sanding
October 27 – November 8, 2012	Hurricane Sandy	EM-3351	Yes	Checking Roads, Removing Trees and Branches From Roads
February 12-13, 2014	Winter Storm	N/A	N/A	Routine Plowing and Sanding

9.13.4 Hazard Vulnerabilities and Ranking

The hazard profiles in Section 5.0 of this plan have detailed information regarding each plan participant's vulnerability to the identified hazards. The following summarizes the hazard vulnerabilities and their ranking in the Town of North East. For additional vulnerability information relevant to this jurisdiction, refer to Section 5.0.



Hazard Risk/Vulnerability Risk Ranking

The table below summarizes the hazard risk/vulnerability rankings of potential hazards for the Town of North East.

Table 9.13-3. Hazard Risk/Vulnerability Risk Ranking

Hazard type	Estimate of Potential Dollar Losses to Structures Vulnerable to the Hazard ^{a, c}	Probability of Occurrence	Risk Ranking Score (Probability x Impact)	Hazard Ranking ^b
Coastal Storm	100-year MRP: \$1,045,959.00 500-year MRP: 7298210 Annualized: \$90,719.00	Frequent	48	High
Drought	Damage estimate not available	Frequent	42	High
Earthquake	100-Year GBS: \$0 500-Year GBS: \$204,887 2,500-Year GBS: \$2,362,784	Occasional	28	Medium
Extreme Temperature	Damage estimate not available	Frequent	30	Medium
Flood	1% Annual Chance: \$11,698,811	Frequent	36	High
Severe Storm	100-Year MRP: \$1,045,959 500-year MRP: \$7,298,210 Annualized: \$90,719	Frequent	48	High
Winter Storm	1% GBS: \$8,723,022 5% GBS: \$43,615,109	Frequent	51	High
Wildfire	Estimated Value in the WUI: \$758,531,660	Frequent	42	High

Notes:

GBS = General building stock; MRP = Mean return period.

- The general building stock valuation is based on the custom inventory generated for the municipality and based on improved value.
- High = Total hazard priority risk ranking score of 31 and above
Medium = Total hazard priority risk ranking of 20-30+
Low = Total hazard risk ranking below 20
- Loss estimates for the severe storm and severe winter storm hazards are structural values only and do not include the estimated value of contents. The earthquake and hurricane wind hazards were evaluated by Census tract. The Census tracts do not exactly align with municipal boundaries; therefore, a total is reported for each Town inclusive of the Villages. Loss estimates for the flood and earthquake hazards represent both structure and contents. Potential flood loss estimates were generated using Hazus-MH 2.2 and the 2011 FEMA DFIRM for the 1-percent annual chance event. For the wildfire hazard, the improved value and estimated contents of buildings located within the identified hazard zones is provided.

National Flood Insurance Program (NFIP) Summary

The following table summarizes the NFIP statistics for the Town of North East.

Table 9.13-4. NFIP Summary

Municipality	# Policies (1)	# Claims (Losses) (1)	Total Loss Payments (2)	# Rep. Loss Prop. (1)	# Severe Rep. Loss Prop. (1)	# Policies in 100-year Loss Boundary (3)
Town of North East	16	3	\$21,266.12	0	0	2

Source: FEMA Region 2, 2014

- Policies, claims, repetitive loss and severe repetitive loss statistics provided by FEMA Region 2, and are current as of 12/31/2014. Please note the total number of repetitive loss properties includes the severe repetitive loss properties. The number of claims represents claims closed by 12/31/14.
- Total building and content losses from the claims file provided by FEMA Region 2.
- The policies inside and outside of the flood zones is based on the latitude and longitude provided by FEMA Region 2 in the policy file.



Notes: FEMA noted that where there is more than one entry for a property, there may be more than one policy in force or more than one GIS possibility.
 A zero percentage denotes less than 1/100th percentage and not zero damages or vulnerability as may be the case.
 Number of policies and claims and claims total exclude properties located outside County boundary, based on provided latitude and longitude

Critical Facilities

The table below presents HAZUS-MH estimates of the damage and loss of use to critical facilities in the community as a result of a 1- and 0.2-percent annual chance flood events.

Table 9.13-5. Potential Flood Losses to Critical Facilities

Name	Type	Exposure		Potential Loss from 1% Flood Event		
		1% Event	0.2% Event	Percent Structure Damage	Percent Content Damage	Days to 100-Percent ⁽¹⁾
No critical facilities are located in the FEMA 1% or 0.2% Flood Hazard Area.						

Source: Dutchess County, NYGIS

Note (1): HAZUS-MH 2.2 provides a general indication of the maximum restoration time for 100% operations. Clearly, a great deal of effort is needed to quickly restore essential facilities to full functionality; therefore this will be an indication of the maximum downtime (HAZUS-MH 2.1 User Manual).

Note (2): In some cases, a facility may be located in the DFIRM flood hazard boundary; however HAZUS did not calculate potential loss. This may be because the depth of flooding does not amount to any damages to the structure according to the depth damage function used in HAZUS for that facility type. Further, HAZUS-MH may estimate potential damage to a facility that is outside the DFIRM because the model generated a depth grid beyond the DFIRM boundaries.

X Facility located within the DFIRM boundary

- Not calculated by HAZUS-MH 2.2

Other Vulnerabilities Identified

The municipality has not identified any other vulnerabilities within their community.

9.13.5 Capability Assessment

This section identifies the following capabilities of the local jurisdiction:

- Planning and regulatory capability
- Administrative and technical capability
- Fiscal capability
- Community classification
- National Flood Insurance Program
- Integration of Mitigation Planning into Existing and Future Planning Mechanisms



Planning and Regulatory Capability

The table below summarizes the regulatory tools that are available to the Town of North East.

Table 9.13-6. Planning and Regulatory Tools

Tool / Program (code, ordinance, plan)	Do you have this? (Yes/No) If Yes, date of adoption or update	Authority (local, county, state, federal)	Dept. /Agency Responsible	Code Citation and Comments (Code Chapter, name of plan, explanation of authority, etc.)
Planning Capability				
Master Plan	Yes; 1996	Local	Planning Board/ZBA	Town of North East – Village of Millerton Comprehensive Plan
Capital Improvements Plan	No			
Floodplain Management / Basin Plan	Yes; 2012	Local	Code Enforcement Officer	Floodplain Management Plan
Stormwater Management Plan	No			
Open Space Plan	No			
Stream Corridor Management Plan	No			
Watershed Management or Protection Plan	No			
Economic Development Plan	No			
Comprehensive Emergency Management Plan	No			
Emergency Response Plan	Yes; 2012	Local	Town Board/ Supervisor	
Post-Disaster Recovery Plan	No			
Transportation Plan	No			
Strategic Recovery Planning Report	No			
Other Plans:				
Regulatory Capability				
Building Code	Yes	State & Local	Code Enforcement Officer	Chapter 38 Town Code
Zoning Ordinance	Yes; 1998	Local	Code Enforcement Officer	Chapter 98 Town Code
Subdivision Ordinance	Yes	Local	Code Enforcement Officer	Chapter 84 Town Code
NFIP Flood Damage Prevention Ordinance	Yes	Federal, State, Local	Code Enforcement Officer	Chapter 55 Town Code
NFIP: Cumulative Substantial Damages	No	Local		
NFIP: Freeboard	Yes	State, Local		State mandated BFE+2 for single and two-family residential construction, BFE+1 for all other construction types
Growth Management	No	Local		



Tool / Program (code, ordinance, plan)	Do you have this? (Yes/No) If Yes, date of adoption or update	Authority (local, county, state, federal)	Dept. /Agency Responsible	Code Citation and Comments (Code Chapter, name of plan, explanation of authority, etc.)
Ordinances				
Site Plan Review Requirements	Yes	Local	Planning Board	
Stormwater Management Ordinance	No			
Municipal Separate Storm Sewer System (MS4)	No			
Natural Hazard Ordinance	No			
Post-Disaster Recovery Ordinance	No			
Real Estate Disclosure Requirement	Yes	State		NYS mandate, Property Condition Disclosure Act, NY Code - Article 14 §460-467
Other [Special Purpose Ordinances (i.e., sensitive areas, steep slope)]				

Administrative and Technical Capability

The table below summarizes potential staff and personnel resources available to the Town of North East.

Table 9.13-7. Administrative and Technical Capabilities

Resources	Is this in place? (Yes or No)	Department/ Agency/Position
Administrative Capability		
Planning Board	Yes	Planning Board Chair
Mitigation Planning Committee	No	
Environmental Board/Commission	Yes/CAC	
Open Space Board/Committee	No	
Economic Development Commission/Committee	No	
Maintenance Programs to Reduce Risk	No	
Mutual Aid Agreements	Yes	North East Fire District
Technical/Staffing Capability		
Planner(s) or Engineer(s) with knowledge of land development and land management practices	Yes	Planning Board/Morris Associates
Engineer(s) or Professional(s) trained in construction practices related to buildings and/or infrastructure	Yes	Morris Associates
Planners or engineers with an understanding of natural hazards	Yes	Morris Associates
NFIP Floodplain Administrator	Yes	Code Enforcement Officer
Surveyor(s)	No	
Personnel skilled or trained in GIS and/or HAZUS-MH applications	No	
Scientist familiar with natural hazards	No	
Emergency Manager	No	
Grant Writer(s)	No	



Resources	Is this in place? (Yes or No)	Department/ Agency/Position
Staff with expertise or training in benefit/cost analysis	No	
Professionals trained in conducting damage assessments	Yes	Morris Associates

Fiscal Capability

The table below summarizes financial resources available to the Town of North East.

Table 9.13-8. Fiscal Capabilities

Financial Resources	Accessible or Eligible to Use (Yes/No)
Community development Block Grants (CDBG, CDBG-DR)	Yes; Administrator/Morris Associates
Capital Improvements Project Funding	No
Authority to Levy Taxes for specific purposes	Yes; Town Board
User fees for water, sewer, gas or electric service	Yes; Town Board
Impact Fees for homebuyers or developers of new development/homes	Yes; Town Board
Stormwater Utility Fee	No
Incur debt through general obligation bonds	Yes; Attorney to the Town
Incur debt through special tax bonds	Yes; Attorney to the Town
Incur debt through private activity bonds	Yes; Attorney to the Town
Withhold public expenditures in hazard-prone areas	Don't know
Other Federal or State Funding Programs	Don't know
Open Space Acquisition Funding Programs	Don't know
Other	

Community Classifications

The table below summarizes classifications for community program available to the Town of North East.

Table 9.13-9. Community Classifications

Program	Do you have this? (Yes/No)	Classification (if applicable)	Date Classified (if applicable)
Community Rating System (CRS)	No		
Building Code Effectiveness Grading Schedule (BCEGS)	No		
Public Protection (ISO Fire Protection Classes 1 to 10)	Yes	Class 5 – Residential Class 4 – Commercial and Industrial	2004
Storm Ready	No		
Firewise	No		
Disaster/Safety Programs in/for Schools	Yes	Within the School District	
Organizations with Mitigation Focus (advocacy group, non-government)	TBD		
Public Education Program/Outreach (through website, social media)	TBD		
Public-Private Partnerships	TBD		

N/A = Not applicable. NP = Not participating. - = Unavailable. TBD = To be determined.



The classifications listed above relate to the community's ability to provide effective services to lessen its vulnerability to the hazards identified. These classifications can be viewed as a gauge of the community's capabilities in all phases of emergency management (preparedness, response, recovery and mitigation) and are used as an underwriting parameter for determining the costs of various forms of insurance. The CRS class applies to flood insurance while the BCEGS and Public Protection classifications apply to standard property insurance. CRS classifications range on a scale of 1 to 10 with class 1 being the best possible classification, and class 10 representing no classification benefit. Firewise classifications include a higher classification when the subject property is located beyond 1000 feet of a creditable fire hydrant and is within 5 road miles of a recognized Fire Station.

Criteria for classification credits are outlined in the following documents:

- The Community Rating System Coordinators Manual
- The Building Code Effectiveness Grading Schedule
- The ISO Mitigation online ISO's Public Protection website at <http://www.isomitigation.com/ppc/0000/ppc0001.html>
- The National Weather Service Storm Ready website at <http://www.weather.gov/stormready/howto.htm>
- The National Firewise Communities website at <http://firewise.org/>

Self-Assessment of Capability

The table below provides an approximate measure of the Town of North East's capability to work in a hazard-mitigation capacity and/or effectively implement hazard mitigation strategies to reduce hazard vulnerabilities.

Table 9.13-10. Self-Assessment Capability for the Municipality

Area	Degree of Hazard Mitigation Capability		
	Limited (If limited, what are your obstacles?)*	Moderate	High
Planning and Regulatory Capability		X	
Administrative and Technical Capability		X	
Fiscal Capability	X (Tax Cap)		
Community Political Capability		X	
Community Resiliency Capability		X	
Capability to Integrate Mitigation into Municipal Processes and Activities.		X	

National Flood Insurance Program

NFIP Floodplain Administrator (FPA)

The Town's FPA is Kenneth McLaughlin, who also serves as the Town's Building Inspector/Code Enforcement Officer.

Flood Vulnerability Summary

The Town of North East did not suffer any significant damages from flood events, including Hurricanes Floyd and Irene, and Superstorm Sandy. The Town has no records of which properties have suffered flood damages



in the past. NFIP loss statistics as of February 28, 2015 show only 3 loss payments, for a total of just over \$21,000, since 1978.

Resources

Floodplain management is the responsibility of the Town's FPA. While other Town officials assist in floodplain management, the FPA has not dedicated staff for floodplain management. The Town does not provide flood-specific education and outreach to the community.

Compliance History

The Town of North East is in good standing with the NFIP, but there has not been a Community Assistance Visit (CAV) conducted in the Town.

Regulatory

The Town's flood damage prevention ordinance is included in the Town Code as Chapter 55. It regulates development in the floodplain in accordance with the requirements of the NFIP and NYS. Floodplain management is supported by other programs, including the Town's planning and zoning requirements.

Community Rating System

The Town of North East does not participate in the Community Rating System (CRS) program.

Other Capabilities Identified

Previous actions that are now on-going programs and capabilities are described below. Refer to Table 9.13-11 presented later in this annex.

- The floodplain management ordinance is updated as new information is available. It was updated in 2012 to incorporate information from the County's 2012 Flood Insurance Study.

Integration of Hazard Mitigation into Existing and Future Planning Mechanisms

For a community to succeed in reducing long-term risk, hazard mitigation must be integrated into the day-to-day local government operations. As part of this planning effort, each community was surveyed to obtain a better understanding of their community's progress in plan integration. A summary is provided below. In addition, the community identified specific integration activities that will be incorporated into municipal procedures.

Planning

Land Use Planning: The Town has a Planning Board and Zoning Board of Appeals which review all applications for development and consider natural hazard risk areas in their review. Many development activities require additional levels of environmental review, specifically NYS SEQRA and Federal NEPA requirements.

Regulatory and Enforcement (Ordinances)

Flood Damage Prevention Chapter 55: It is the purpose of this chapter to promote the public health, safety, and general welfare and to minimize public and private losses due to flood conditions in specific areas by provisions designed to:

- A. Regulate uses which are dangerous to health, safety and property due to water or erosion hazards or which result in damaging increases in erosion or in flood heights or velocities;



- B. Require that uses vulnerable to floods, including facilities which serve such uses, be protected against flood damage at the time of initial construction;
- C. Control the alteration of natural floodplains, stream channels, and natural protective barriers which are involved in the accommodation of floodwaters;
- D. Control filling, grading, dredging and other development which may increase erosion or flood damages;
- E. Regulate the construction of flood barriers which will unnaturally divert floodwaters or which may increase flood hazards to other lands; and
- F. Qualify for and maintain participation in the National Flood Insurance Program.

Zoning Code Chapter 98: The Town's zoning code includes districts and standards pertaining to the mitigation of hazards. These sections include the Floodplain regulations, stormwater management & erosion control standards.

Site Plan/Subdivision Review Chapter 84: The Town's Planning Board is tasked with site plan/subdivision review. The Planning board pays special attention to ensure that developments mitigate the issues associated with flooding or steep slopes.

Building Code Chapter 38: The building codes are strictly enforced to make new and renovated buildings as prepared as possible for hazard related incidents. The chapter includes a provision to allow the building inspector to make emergency repairs to protect the health safety and welfare of the residents.

Funding

Operating Budget: The Town's operating budget contains minimal provisions for expected repairs like snow removal and infrastructure repair after a storm or natural disaster.

Education and Outreach

The Planning Department is a member of the Dutchess County Planning Federation and attends trainings and researches best practices that other communities are implementing. DPW takes classes and implements in hazardous reduction techniques in various capital improvements. The Town has planned to budget for training for personal including professional development geared towards health and safety.

9.13.6 Mitigation Strategy and Prioritization

This section discusses past mitigations actions and status, describes proposed hazard mitigation initiatives, and prioritization.

Past Mitigation Initiative Status

The following table indicates progress on the community's mitigation strategy identified in the 2010 Plan. Actions that are carried forward as part of this Plan are included in the following subsection in its own table with prioritization. Previous actions that are now on-going programs and capabilities are indicated as such in the following table and may also be found under 'Capability Assessment' presented previously in this annex.



Table 9.13-11. Past Mitigation Initiative Status

2010 Mitigation Action	Responsible Party	Status (In progress, No progress, Complete)	Describe Status	Next Step (Include in 2015 HMP? or Discontinue)	Describe Next Step
Update Municipal codes on Flood Damage Protection and Zoning Provisions	Town Board	Complete	Completed 2012, Locally Funded	Discontinue	Project has been completed
Establish All Hazards Mitigation Plan library to contain local and regional plan documents	Town Board	No Progress	Lack of assistance and direction	Discontinue	Plan is on file with Town.
Develop Public awareness materials and disseminate information on availability to town residents	Town Board	No Progress	Budgetary limitations	Discontinue	Lack of funding to develop, publish and distribute
Critical Facility—Flood-proof or relocate the Town Highway Garage, salt storage building, and fueling center	Town Board	In Progress	The Town is looking at relocating the Highway Garage to a more modern and suitable facility	Include in 2015 HMP	The Town will make a concentrated effort to relocate the Town Highway Garage and Salt Shed.
Resize and enlarge the culvert on Skunks Misery Road to improve drainage on Town highway	Town Highway Dept.	No Progress	No funding secured	Include in 2015 HMP	Include as currently written.
Mill Road Phase 1: Restore existing culvert under the rail bed and restore the drainage channel in the underpass at Mill Road to improve drainage.	Town Highway Dept.	No Progress	No funding secured	Include in 2015 HMP	Include as currently written.
Mill Road Phase 2: Clear stream channels upstream and downstream of rail bed.	Town Highway Dept.	No Progress	No funding secured	Include in 2015 HMP	Include as currently written.
Mill Road Phase 3: Install new drainage culvert in rail bed and replace highway culvert with a larger culvert	County DPW, Town Highway Dept.	No Progress	No funding Secured	Include in 2015 HMP	Include as currently written.



2010 Mitigation Action	Responsible Party	Status (In progress, No progress, Complete)	Describe Status	Next Step (Include in 2015 HMP? or Discontinue)	Describe Next Step
Mill Road Phase 4: Install flow control structures in wetland areas upstream of Mill Road to restore wetlands.	County DPW, Town Highway Dept.	No Progress	No funding Secured	Include in 2015 HMP	Include as currently written.
Develop policies and procedures with Water Supplier to establish use restrictions during periods of drought.	Town Board	No Progress	The Village of Millerton is the water supplier to the Town's Water District.	Include in 2015 HMP	The Town will attempt to work with the Village to develop policies and procedures.
Provide information on local earthquake hazards and property owner mitigation steps.	Town Board	No Progress	Budgetary Limitations	Include in 2015 HMP	Include as currently written.
Develop protection plan for town's critical facilities.	Town Board, Town Highway Dept.	No Progress	Budgetary Limitations	Include in 2015 HMP	Include as currently written.
Investigate sources of funding to assist private dam owners to complete needed repairs or maintenance.	Town Board	No Progress	Budgetary Limitations	Include in 2015 HMP	Include as currently written.
Develop and disseminate information on wildfire hazards and property owner mitigation steps	Town Board	No Progress	Budgetary Limitations	Include in 2015 HMP	Include as currently written.
Develop policies and procedures for declarations of emergencies and town roadway closures/ Develop and disseminate materials on storm hazards and access to storm hazard mitigation information	Town Board	No Progress	Budgetary Limitations	Discontinue	Lack of funding to develop, publish and distribute
Develop and disseminate information on protection of structures from cold weather.	Town Board	No Progress	Budgetary Limitations	Discontinue	Lack of funding to develop, publish and distribute



2010 Mitigation Action	Responsible Party	Status (In progress, No progress, Complete)	Describe Status	Next Step (Include in 2015 HMP? or Discontinue)	Describe Next Step
Develop and disseminate information about household emergency preparedness during extreme wind related events.	Town Board	No Progress	Budgetary Limitations	Discontinue	Lack of funding to develop, publish and distribute
Public awareness program on Hazards, Prevention, and Mitigation: Assist CPG Chairperson in maintenance of mitigation planning web presence: assist CPG Chairperson in preparation of annual hazards and mitigation planning fact sheet and its distribution; assist CPG Chairperson in preparation of hazards survey; periodic discussion of hazard mitigation and the mitigation plan at other regular local meetings; use of annual flyers, newsletters, advertisements, or radio/TV announcements, etc. at the discretion of the jurisdiction (incorporating as much free information as possible from the FEMA Publications Warehouse and other appropriate sources).					
See above.	Town Board	No Progress	Budgetary Limitations	Discontinue	Lack of funding to develop, publish and distribute
Code update: Review existing local codes and ordinances against the identified hazards to determine whether there need to be any amendments to address identified hazards and, where a need is identified, modify/amend the codes/ ordinances as applicable.	Town Board, Code Enforcement Officer	In Progress	Budgetary Limitations	Discontinue	Lack of funding to develop, publish and distribute
Code enforcement: Enforcement of NYS and Local Building Codes with Continual CEO training.	Town Board, Code Enforcement Officer	In Progress	Continuously on-going	Include in 2015 HMP	Continue to enforce codes
Update/revise floodplain management ordinances to comply with latest FEMA regulations	Town Board	Complete	Completed 2012		
Add/train sufficient members of staff to adequately enforce NFIP regulations/floodplain management ordinances	Town Board/ Code Enforcement Officer	In Progress	Budgetary Limitations	Discontinue	Lack of funding to develop, publish and distribute
Update/revise floodplain management ordinances to be consistent with new FIRMS	Town Board	Complete	Completed 2012		



2010 Mitigation Action	Responsible Party	Status (In progress, No progress, Complete)	Describe Status	Next Step (Include in 2015 HMP? or Discontinue)	Describe Next Step
Require staff involved in Floodplain management and ordinance enforcement to become Certified Floodplain Managers (CFMs)	Code Enforcement Officer	In Progress	Continuous	Include in 2015 HMP	The current wording is satisfactory
Join the Community Rating System (CRS)	Town Board	No Progress	Budgetary Limitations	Discontinue	Lack of funding



Completed Mitigation Initiatives not Identified in the Previous Mitigation Strategy

The Town of North East has not identified any mitigation projects/activities that have been completed but were not identified in the previous mitigation strategy in the 2010 Plan.

Proposed Hazard Mitigation Initiatives for the Plan

The Town of North East was provided the following FEMA publications to use as a resource as part of their comprehensive review of all possible activities and mitigation measures to address their hazards: FEMA 551 'Selecting Appropriate Mitigation Measures for Floodprone Structures' (March 2007) and FEMA 'Mitigation Ideas – A Resource for Reducing Risk to Natural Hazards' (January 2013). The Town of North East was provided the results to the risk assessment to further assist with the identification of mitigation actions.

Table 9.13-12 summarizes the comprehensive-range of specific mitigation initiatives the Town of North East would like to pursue in the future to reduce the effects of hazards. Some of these initiatives may be previous actions carried forward for this Plan. These initiatives are dependent upon available funding (grants and local match availability) and may be modified or omitted at any time based on the occurrence of new hazard events and changes in municipal priorities. Both the four FEMA mitigation action categories and the six CRS mitigation action categories are listed in the table below to further demonstrate the wide-range of activities and mitigation measures selected.

As discussed in Section 6, 14 evaluation/prioritization criteria are used to complete the prioritization of mitigation initiatives. For each new mitigation action, a numeric rank is assigned (-1, 0, or 1) for each of the 14 evaluation criteria to assist with prioritizing your actions as 'High', 'Medium', or 'Low.' The table below summarizes the evaluation of each mitigation initiative, listed by Action Number.

Table 9.13-13 provides a summary of the prioritization of all proposed mitigation initiatives for the Plan.



Table 9.13-12. Proposed Hazard Mitigation Initiatives

Initiative	Mitigation Initiative	Applies to New and/or Existing Structures*	Hazard(s) Mitigated	Goals Met	Lead and Support Agencies	Estimated Benefits	Estimated Cost	Sources of Funding	Timeline	Priority	Mitigation Category	CRS Category
TNE -1	Critical Facility—Flood-proof or relocate the Town Highway Garage, salt storage building, and fueling center. Assure that any mitigation addresses the 500-year flood event or "worst damage scenario".	Existing	Flooding	2, 6	Town Board	High	\$2,000,000	PDM; HMGP; bonding	2 yrs.	High	SIP	PP; SP
TNE -2	Resize and enlarge the culvert on Skunks Misery Road to improve drainage on Town highway	New and existing	Flooding	2, 6	Town Highway Dept.	High	Low	PDM; HMGP; local staff	1 yr	Medium	SIP	PP; SP
TNE -3	Mill Road Phase 1: Restore existing culvert under the rail bed and restore the drainage channel in the underpass at Mill Road to improve drainage.	New and existing	Flooding	2, 6	Town Highway Dept.	High	Low	Local staff time	1 yr	High	SIP	PP; SP
TNE -4	Mill Road Phase 2: Clear stream channels upstream and downstream of rail bed.	New and existing	Flooding	2, 6	Town Highway Dept.	High	Low	PDM; HMGP	1-2 yrs.	High	SIP	PP; SP
TNE -5	Mill Road Phase 3: Install new drainage culvert in rail bed and replace highway culvert with a larger culvert	New and existing	Flooding	2, 6	County DPW & Town Highway Dept.	High	Low	PDM; HMGP	2-3 yrs.	High	SIP	PP; SP
TNE -6	Mill Road Phase 4: Install flow control structures in wetland areas upstream of Mill Road to restore wetlands.	New and existing	Flooding	2, 4	County SWCD	Medium	Medium	PDM; HMGP	3-4 yrs.	Medium	SIP	PP; SP
TNE -7	Develop policies and procedures with Water Supplier to establish use restrictions during periods of drought.	New and existing	Drought	1, 4, 6, 7	Town Board	Low	Low	Local budget	1 yr	Low	LPR	PR
TNE -8	Provide information on local earthquake hazards and property owner mitigation steps.	New and existing	Earthquake	1, 2, 3, 6	Town Board	Low	Medium	Local staff	1 yr.	Low	EAP	PI
TNE -9	Develop protection plan for town's critical facilities.	Existing	Earthquake; Flood;	1, 2, 5, 6, 7	Town Board; Town	Low	Low	Local budget	1 yr.	Low	LPR	PR



Table 9.13-12. Proposed Hazard Mitigation Initiatives

Initiative	Mitigation Initiative	Applies to New and/or Existing Structures*	Hazard(s) Mitigated	Goals Met	Lead and Support Agencies	Estimated Benefits	Estimated Cost	Sources of Funding	Timeline	Priority	Mitigation Category	CRS Category
			Severe Storms; Wildfire; Winter Storms		Highway Dept.							
TNE -10	Investigate sources of funding to assist private dam owners to complete needed repairs or maintenance.	Existing	Flooding	1, 2, 3, 6	Town Board	Low	Low	Local staff	1 yr.	Low	SIP	PR
TNE -11	Develop and disseminate information on wildfire hazards and property owner mitigation steps	New and Existing	Wildfire	1, 2, 3, 5	Town Board	Low	Low	Local staff	1 yr	Low	EAP	PI
TNE -12	Code enforcement: Enforcement of NYS and Local Building Codes with Continual CEO training.	New and Existing	All	1, 2, 7	CEO	High	Low	Local staff	OG	Medium	LPR	PR
TNE -13	Require staff involved in floodplain management to become Certified Floodplain Managers (CFM).	N/A	Flooding	2	Town Board	High	Low	Local budget	1 yrs.	Low	LPR	PR
TNE -14	Install a backup generator at the Town Hall.	See Action Worksheet										

Notes:

Not all acronyms and abbreviations defined below are included in the table.

*Does this mitigation initiative reduce the effects of hazards on new and/or existing buildings and/or infrastructure? Not applicable (N/A) is inserted if this does not apply.

Acronyms and Abbreviations:

CAV	Community Assistance Visit
CRS	Community Rating System
DPW	Department of Public Works
FEMA	Federal Emergency Management Agency
FPA	Floodplain Administrator
HMA	Hazard Mitigation Assistance
N/A	Not applicable
NFIP	National Flood Insurance Program
OEM	Office of Emergency Management

Potential FEMA HMA Funding Sources:

FMA	Flood Mitigation Assistance Grant Program
HMGP	Hazard Mitigation Grant Program
PDM	Pre-Disaster Mitigation Grant Program
RFC	Repetitive Flood Claims Grant Program (discontinued)
SRL	Severe Repetitive Loss Grant Program (discontinued)

Timeline:

Short	1 to 5 years
Long Term	5 years or greater
OG	On-going program
DOF	Depending on funding





Costs:

Where actual project costs have been reasonably estimated:

Low	< \$10,000
Medium	\$10,000 to \$100,000
High	> \$100,000

Where actual project costs cannot reasonably be established at this time:

Low	Possible to fund under existing budget. Project is part of, or can be part of an existing on-going program.
Medium	Could budget for under existing work plan, but would require a reapportionment of the budget or a budget amendment, or the cost of the project would have to be spread over multiple years.
High	Would require an increase in revenue via an alternative source (i.e., bonds, grants, fee increases) to implement. Existing funding levels are not adequate to cover the costs of the proposed project.

Mitigation Category:

- *Local Plans and Regulations (LPR)* – These actions include government authorities, policies or codes that influence the way land and buildings are being developed and built.
- *Structure and Infrastructure Project (SIP)*- These actions involve modifying existing structures and infrastructure to protect them from a hazard or remove them from a hazard area. This could apply to public or private structures as well as critical facilities and infrastructure. This type of action also involves projects to construct manmade structures to reduce the impact of hazards.
- *Natural Systems Protection (NSP)* – These are actions that minimize damage and losses, and also preserve or restore the functions of natural systems.
- *Education and Awareness Programs (EAP)* – These are actions to inform and educate citizens, elected officials, and property owners about hazards and potential ways to mitigate them. These actions may also include participation in national programs, such as StormReady and Firewise Communities

CRS Category:

- *Preventative Measures (PR)* - Government, administrative or regulatory actions, or processes that influence the way land and buildings are developed and built. Examples include planning and zoning, floodplain local laws, capital improvement programs, open space preservation, and storm water management regulations.
- *Property Protection (PP)* - These actions include public activities to reduce hazard losses or actions that involve (1) modification of existing buildings or structures to protect them from a hazard or (2) removal of the structures from the hazard area. Examples include acquisition, elevation, relocation, structural retrofits, storm shutters, and shatter-resistant glass.
- *Public Information (PI)* - Actions to inform and educate citizens, elected officials, and property owners about hazards and potential ways to mitigate them. Such actions include outreach projects, real estate disclosure, hazard information centers, and educational programs for school-age children and adults.
- *Natural Resource Protection (NR)* - Actions that minimize hazard loss and also preserve or restore the functions of natural systems. These actions include sediment and erosion control, stream corridor restoration, watershed management, forest and vegetation management, and wetland restoration and preservation.
- *Structural Flood Control Projects (SP)* - Actions that involve the construction of structures to reduce the impact of a hazard. Such structures include dams, setback levees, floodwalls, retaining walls, and safe rooms.
- *Emergency Services (ES)* - Actions that protect people and property during and immediately following a disaster or hazard event. Services include warning systems, emergency response services, and the protection of essential facilities

Benefits:

Where possible, an estimate of project benefits (per FEMA's benefit calculation methodology) has been evaluated against the project costs, and is presented as:

Low=	< \$10,000
Medium	\$10,000 to \$100,000
High	> \$100,000

Where numerical project benefits cannot reasonably be established at this time:

Low	Long-term benefits of the project are difficult to quantify in the short term.
Medium	Project will have a long-term impact on the reduction of risk exposure to life and property, or project will provide an immediate reduction in the risk exposure to property.
High	Project will have an immediate impact on the reduction of risk exposure to life and property.



Table 9.13-13. Summary of Prioritization of Actions

Mitigation Action / Project Number	Mitigation Action/Initiative	Life Safety	Property Protection	Cost-Effectiveness	Technical	Political	Legal	Fiscal	Environmental	Social	Administrative	Multi-Hazard	Timeline	Agency Champion	Other Community Objectives	Total	High / Medium / Low
TNE-1	Critical Facility—Flood-proof or relocate the Town Highway Garage, salt storage building, and fueling center	1	1	1	1	0	0	1	1	1	0	0	0	1	1	9	High
TNE-2	Resize and enlarge the culvert on Skunks Misery Road to improve drainage on Town highway	1	1	1	1	1	1	1	1	1	1	1	1	0	1	13	Medium
TNE-3	Mill Road Phase 1: Restore existing culvert under the rail bed and restore the drainage channel in the underpass at Mill Road to improve drainage.	1	1	1	1	1	1	1	1	1	1	1	1	1	0	13	High
TNE-4	Mill Road Phase 2: Clear stream channels upstream and downstream of rail bed.	1	1	1	1	1	-1	1	1	1	0	1	1	1	1	11	High
TNE-5	Mill Road Phase 3: Install new drainage culvert in rail bed and replace highway culvert with a larger culvert	1	1	1	1	1	-1	1	1	1	0	1	0	1	0	9	High
TNE-6	Mill Road Phase 4: Install flow control structures in wetland areas upstream of Mill Road to restore wetlands.	1	1	1	1	1	-1	1	1	1	-1	1	-1	1	-1	6	Medium
TNE-7	Develop policies and procedures with Water Supplier to establish use restrictions during periods of drought.	1	1	1	1	0	0	0	1	-1	-1	0	0	1	0	4	Low
TNE-8	Provide information on local earthquake hazards and property owner mitigation steps.	1	1	1	0	-1	-1	0	0	0	-1	0	-1	1	-1	-1	Low
TNE-9	Develop protection plan for town's critical facilities.	1	1	1	1	1	1	0	1	1	-1	1	0	1	0	9	Low
TNE-10	Investigate sources of funding to assist private dam owners to complete needed repairs or maintenance.	1	1	1	0	1	1	0	1	0	-1	0	0	1	0	6	Low



Table 9.13-13. Summary of Prioritization of Actions

Mitigation Action / Project Number	Mitigation Action/Initiative	Life Safety	Property Protection	Cost-Effectiveness	Technical	Political	Legal	Fiscal	Environmental	Social	Administrative	Multi-Hazard	Timeline	Agency Champion	Other Community Objectives	Total	High / Medium / Low
TNE-11	Develop and disseminate information on wildfire hazards and property owner mitigation steps	1	1	1	1	0	0	1	0	0	-1	1	-1	1	-1	4	Low
TNE-12	Code enforcement: Enforcement of NYS and Local Building Codes with Continual CEO training.	1	1	1	1	1	1	1	1	1	1	1	1	1	1	14	Medium
TNE-13	Require staff involved in floodplain management to become Certified Floodplain Managers (CFM).	0	1	0	1	1	1	0	1	0	0	0	1	1	0	6	Low
TNE-14	Install a backup generator at the Town Hall.	See Action Worksheet														13	High

Note: Refer to Section 6 which contains the guidance on conducting the prioritization of mitigation actions.



9.13.7 Future Needs To Better Understand Risk/Vulnerability

None at this time.

9.13.8 Hazard Area Extent and Location

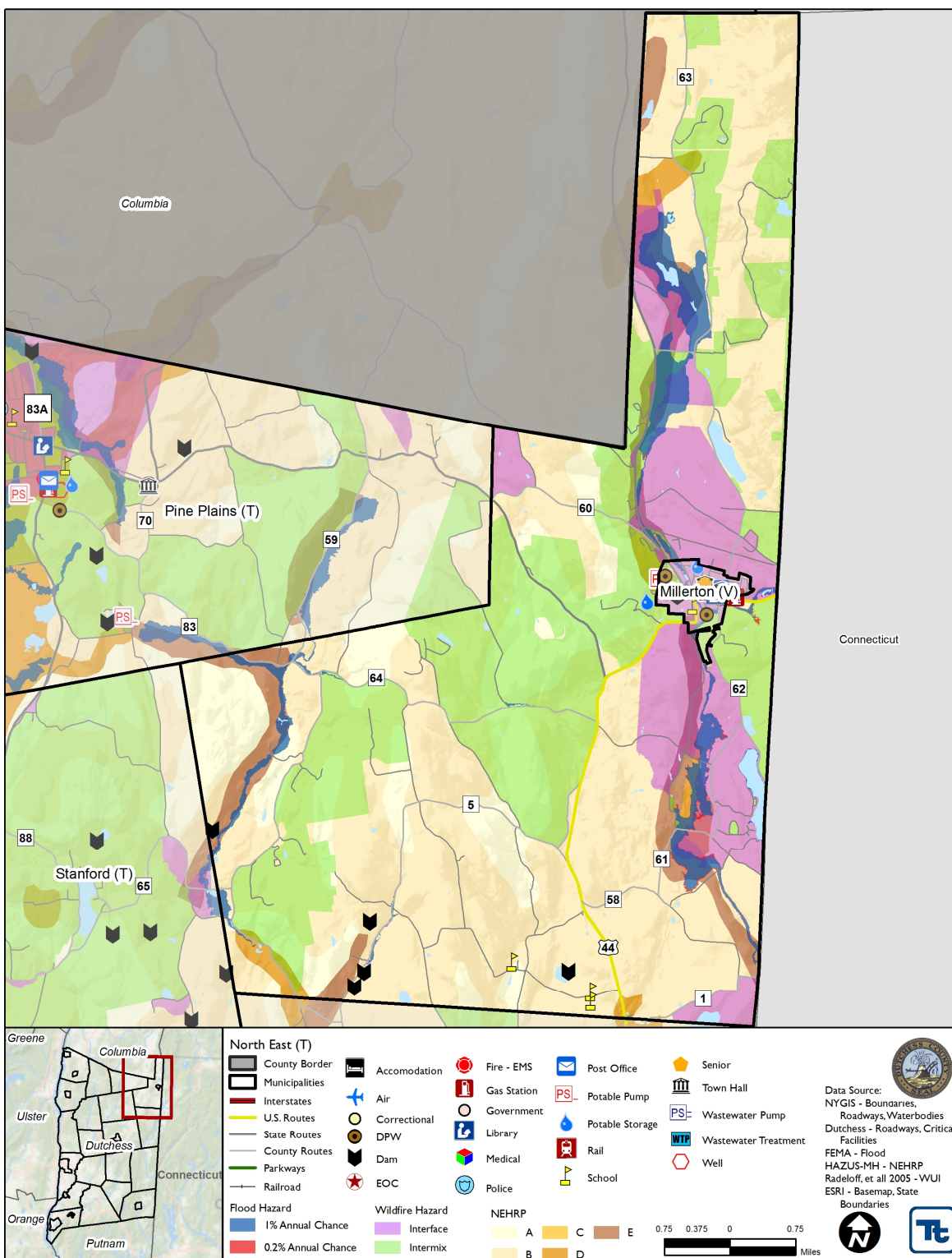
Hazard area extent and location maps have been generated for the Town of North East that illustrate the probable areas impacted within the municipality. These maps are based on the best available data at the time of the preparation of this plan, and are considered to be adequate for planning purposes. Maps have only been generated for those hazards that can be clearly identified using mapping techniques and technologies, and for which the Town of North East has significant exposure. These maps are illustrated in the hazard profiles within Section 5.4, Volume I of this Plan.

9.13.9 Additional Comments

None at this time.



Figure 9.13-1. Town of North East Hazard Area Extent and Location Map





Action Number:

TNE-14

Mitigation Action Name:

Install a backup generator at the Town Hall.

Assessing the Risk	
Hazard(s) addressed:	Earthquake, Extreme Temperature (that results in overtaxed power grid), Severe Storm, Winter Storm
Specific problem being mitigated:	The Town Hall does not have any back-up power. The Town Hall serves as the administrative and communication center for the Town Offices and in cases of emergencies. The ability for this facility to continue these administrative and emergency communication function to adequately serve the community is imperative. During recent hurricane event the Town Hall was without power for days. In addition, in past ice storm events the Town Hall has been without power for over a week. During these time the Town is out of operation.
Evaluation of Potential Actions/Projects	
Actions/Projects Considered (name of project and reason for not selecting):	1. Do nothing (current problem continues) 2. Use portable generators (requires portable fuel supply and availability of personnel who can connect the generator to the Town Hall on very short notice during an emergency) 3. Install a backup generator at Town Hall
Action/Project Intended for Implementation	
Description of Selected Action/Project	Install an emergency back-up power generator system to serve the facility. The generator back-up package system will include LP gas as a fuel source, and a manual transfer switch to transfer power.
Mitigation Action Type	SIP
Goals Met	2, 5, 6
Applies to existing and or new development, or not applicable	Existing
Benefits (losses avoided)	Installing the generator to ensure that the Town Hall can continue to function properly, and the ability to provide communication and information to the residents of the Town of North East and other authorities during emergencies.
Estimated Cost	\$30,000
Priority*	High
Plan for Implementation	
Responsible Organization	Town of North East
Local Planning Mechanism	Town Engineer
Potential Funding Sources	FEMA and other federal grants, State/NYS DHSES, Local Grants
Timeline for Completion	Dependent on Funding. Once funding is secured, short timeline
Reporting on Progress	
Date of Status Report/ Report of Progress	Date: Progress on Action/Project:



Action Number:

TNE-14

Mitigation Action Name:

Install a backup generator at the Town Hall.

Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	
Property Protection	0	
Cost-Effectiveness	1	
Technical	1	
Political	1	
Legal	1	
Fiscal	1	
Environmental	1	
Social	1	
Administrative	1	
Multi-Hazard	1	
Timeline	1	
Agency Champion	1	
Other Community Objectives	1	
Total	13	
Priority (Tier I, II or III)	High	